Subject: Re: -32768
Posted by Lajos Foldy on Fri, 21 Mar 2014 18:16:40 GMT
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On Friday, March 21, 2014 7:02:08 PM UTC+1, Yngvar Larsen wrote:

> For literals, I agree that this might be regarded as dubious. But in general, the fact that N-bit integer arithmetic is silently wrapped modulo 2^N should be regarded as semantically well defined. If not, I believe a serious performance hit would result.

The C standard guarantees modulo 2^N arithmetic for unsigned integers only. For signed integers, the behavior is undefined.

-32768 is a funny number. Did you know that its absolute value is negative?

IDL> help, abs(-32767-1)
<Expression> INT = -32768

This is the consequence of the asymmetric representation of integers, 32768 can not be represented as an int and there is no NaN for integers.

regards,
Lajos